BRUHAT BANGALORE MAHANAGARA PALIKE

Name of Work: Improvements to roads and drain at cross and main roads in AMS Layout in ward no. 03, Attur

Sl No	Description of work	Unit	No	Length m	Breadth m	Depth m	Quantity	Rate in Rs	Amount in Rs
1	KSRRB 300 - Excavation for road, drains and similar works KSRRB 300-1. Earthwork excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5 m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications. MORTH / Chapter 3 (P.No-143, I.No-19.1)								
	For RCC Drain	Cum							
	AMS Layout								
	3rd main		2	207.00	1.10	1.00	455.40		
	5th main		2	160.00	1.10	1.00	352.00		
	3rd cross		2	178.00	1.10	0.95	372.02		
	1st A cross		2	85.00	1.10	0.90	168.30		
	Culvert		2	6.60	1.50	0.90	17.82		
							1365.54	220.40	**300965.02**
	Basic Rate Rs.=	130.00							
	Add 6% A.W Rs. =	7.80							
	Sub Total =	137.80							
	8Km Lead, Loading and Unloading =(2*1.28*10)+57	82.60							
	Total Rate Rs. =	**220.40**							
2	KSRRB M2100-10. Providing and laying Plain cement concrete of mix 1:3:6 with OPC @ 220kgs, with crushed 40mm and down size graded granite metal coarse aggregates @0.89cum and fine aggregates @ 0.46cum, in foundation mechanically mixed, placed in foundation and compacted by vibration including curing for 14 days including cost of all materials, labour, HOM curing, form works, scaffolding and centering complete as per specifications. (P.No-222,I No-27.18)								
	For Drain	Cum							
	AMS Layout								
	3rd main		2	207.00	1.10	0.15	68.31		
	5th main		2	160.00	1.10	0.15	52.80		
	3rd cross		2	178.00	1.10	0.15	58.74		
	1st A cross		2	85.00	1.10	0.15	28.05		
	Culvert		2	6.60	1.50	0.15	2.97		
							210.87	5421.90	**1143316.05**
	Basic Rate Rs.=	5115.00							
	Add 6% A.W Rs. =	306.90							
	Total Rate Rs. =	**5421.90**							
3	Providing and laying plain/reinforced cement concrete for side drains using M20 nominal mix concrete with OPC at 300 kgs. With 20mm and sown size granite metal course aggregates at 0.69 cum and fine aggregates at 0.43 cum machine mixed, well compcted for walls and bottom including centring shuttering cost of material HOM of machinary curing etc., complete execluding cost of steel as per MORTH specification no. 1500, 1700, 2200 including cost of material labour HOM complete as per specification. (P.No.271, I.No.37.59.2 of PW, P&IWTD S.R 2018-19)								
	For RCC Drain	Cum							

BRUHAT BANGALORE MAHANAGARA PALIKE

Name of Work: Improvements to roads and drain at cross and main roads in AMS Layout in ward no. 03, Attur

Sl No	Description of work	Unit	No	Length m	Breadth m	Depth m	Quantity	Rate in Rs	Amount in Rs
1	KSRRB 300 - Excavation for road, drains and similar works KSRRB 300-1. Earthwork excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5 m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications. MORTH / Chapter 3 (P.No-143, I.No-19.1)								
	For RCC Drain	Cum							
	AMS Layout								
	3rd main		2	207.00	1.10	1.00	455.40		
	5th main		2	160.00	1.10	1.00	352.00		
	3rd cross		2	178.00	1.10	0.95	372.02		
	1st A cross		2	85.00	1.10	0.90	168.30		
	Culvert		2	6.60	1.50	0.90	17.82		
							1365.54	220.40	**300965.02**
	Basic Rate Rs.=	130.00							
	Add 6% A.W Rs. =	7.80							
	Sub Total =	137.80							
	8Km Lead, Loading and Unloading =(2*1.28*10)+57	82.60							
	Total Rate Rs. =	**220.40**							
2	KSRRB M2100-10. Providing and laying Plain cement concrete of mix 1:3:6 with OPC @ 220kgs, with crushed 40mm and down size graded granite metal coarse aggregates @0.89cum and fine aggregates @ 0.46cum, in foundation mechanically mixed, placed in foundation and compacted by vibration including curing for 14 days including cost of all materials, labour, HOM curing, form works, scaffolding and centering complete as per specifications. (P.No-222,I No-27.18)								
	For Drain	Cum							
	AMS Layout								
	3rd main		2	207.00	1.10	0.15	68.31		
	5th main		2	160.00	1.10	0.15	52.80		
	3rd cross		2	178.00	1.10	0.15	58.74		
	1st A cross		2	85.00	1.10	0.15	28.05		
	Culvert		2	6.60	1.50	0.15	2.97		
							210.87	5421.90	**1143316.05**
	Basic Rate Rs.=	5115.00							
	Add 6% A.W Rs. =	306.90							
	Total Rate Rs. =	**5421.90**							
3	Providing and laying plain/reinforced cement concrete for side drains using M20 nominal mix concrete with OPC at 300 kgs. With 20mm and sown size granite metal course aggregates at 0.69 cum and fine aggregates at 0.43 cum machine mixed, well compcted for walls and bottom including centring shuttering cost of material HOM of machinary curing etc., complete execluding cost of steel as per MORTH specification no. 1500, 1700, 2200 including cost of material labour HOM complete as per specification. (P.No.271, I.No.37.59.2 of PW, P&IWTD S.R 2018-19)								
	For RCC Drain	Cum							

Sl No	Description of work	Unit	No	Length m	Breadth m	Depth m	Quantity	Rate in Rs	Amount in Rs
	Bottom slab								
	AMS Layout								
	3rd main		2	207.00	0.90	0.15	55.89		
	5th main		2	160.00	0.90	0.15	43.20		
	3rd cross		2	178.00	0.90	0.15	48.06		
	1st A cross		2	85.00	0.90	0.15	22.95		
	side walls								
	AMS Layout								
	3rd main		4	207.00	0.15	0.60	74.52		
	5th main		4	160.00	0.15	0.60	57.60		
	3rd cross		4	178.00	0.15	0.60	64.08		
	1st A cross		4	85.00	0.15	0.60	30.60		
	Culvert raft		2	6.60	1.20	0.20	3.17		
	Culvert wall		4	6.60	0.23	0.60	3.64		
							403.71		
					Net Qty.		**403.71**	7070.20	**2854318.93**
	Basic Rate Rs.=	6670.00							
	Add 6% A.W Rs. =	400.20							
	Total Rate Rs. =	**7070.20**							
4	KSRRB - M2300-14: Providing TMT steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, palcing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining memebrs wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications.MORTH Specification No. 1600 & 2200 for TMT bars Fe 500. (P.No.239, I.No.29.29.2 of PW, P&IWTD S.R 2018-19)								
	Considering steel For Drain @ 60 kg / cum	Tonne		396.90	0.060	–	23.81		
	Considering steel For culvert @ 90 kg / cum	Tonne		6.81	0.090	–	0.61		
							24.43	73992.24	**1807409.04**
	Basic Rate Rs.=	69804.00							
	Add 6% A.W Rs. =	4188.24							
	Total Rate Rs. =	**73992.24**							
5	Providing and fixing RCC precast cover slab of 100mm thick for drain in cement concrete 1:1.5:3 using graded granite jelly 20mm and down size with steel reinforcement, including form work, lift charges, curing and concrete finished surfaces on both sides etc, complete and as per drawing and the directions of Engineer in-charge. (Data Rate)								
	For drain cover slab	Sqm							
	AMS Layout								
	8th cross, Left side		2	207.00	0.90	--	372.60		
	8th cross, Right side, LHS		2	160.00	0.90	--	288.00		
	8th cross, Right side, RHS		2	178.00	0.90	--	320.40		
	1st A cross		2	85.00	0.90	--	153.00		
							1134.00	2337.00	**2650158.00**
	Data Rate Rs. =	2337.00							

Sl No	Description of work	Unit	No	Length m	Breadth m	Depth m	Quantity	Rate in Rs	Amount in Rs
6	Providing and fixing RCC precast cover slab of 250mm thick for drain in cement concrete 1:1.5:3 using graded granite jelly 20mm and down size with steel reinforcement, including form work, lift charges, curing and concrete finished surfaces on both sides etc, complete and as per drawing and the directions of Engineer in-charge. (Data Rate)								
		Sqm							
	AMS Layout								
	Culvert		2	6.60	1.20	--	15.84		
							15.84	5418.00	85821.12
	Data Rate Rs. =	5418.00							
								Sub Total 1 Rs.	8841988.15
	Add GST @ 12%								1061038.58
	PMC @ 1%								96900.00
								Sub Total 2 Rs.	9999926.73
	Miscellaneous & Rounding off								73.27
								Total Rs.	10000000.00

CERTIFICATE:

1. The work spot has been inspected by me and the work is found to be necessary.
2. The rates adopted based on the PWD SR,Bangalore circle for year 2018-2019, issue rates dated 20-05-2020 and Data Rates
3. The Provisions made in the estimate are quite necessary and adequate.
4. The area comes with in the BBMP limits.

Assistant Engineer	Assistant Executive Engineer	Executive Engineer
Ward 03	Yelahanka Satellite Sub Division	Yelahanka Division
BBMP	BBMP	BBMP

BRUHAT BANGALORE MAHANAGARA PALIKE

Name of Work: Improvements to roads and drain at 8th, 9th, 10th and 11th cross roads in Muneshwara layout in ward no. 03, Attur

Sl No	Description of work	Unit	No	Length m	Breadth m	Depth m	Quantity	Rate in Rs	Amount in Rs
1	KSRRB 300 - Excavation for road, drains and similar works KSRRB 300-1. Earthwork excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5 m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications. MORTH / Chapter 3 (P.No-143, I.No-19.1)								
	For RCC Drain	Cum							
	Muneshwara layout								
	8th cross, Left side		2	76.00	1.00	0.90	136.80		
	8th cross, Right side, LHS		1	263.00	1.00	1.00	263.00		
	8th cross, Right side, RHS		1	245.00	1.10	1.00	269.50		
	9th cross, Left side		2	100.00	1.00	1.00	200.00		
	9th cross, Right side		2	173.00	1.00	0.95	328.70		
	10th cross, Left side		2	45.00	1.00	0.90	81.00		
	Culvert		5	6.40	1.50	0.90	43.20		
							1322.20	220.40	**291412.88**
	Basic Rate Rs.=	130.00							
	Add 6% A.W Rs. =	7.80							
	Sub Total =	137.80							
	8Km Lead, Loading and Unloading =(2*1.28*10)+57	82.60							
	Total Rate Rs. =	**220.40**							
2	KSRRB M2100-10. Providing and laying Plain cement concrete of mix 1:3:6 with OPC @ 220kgs, with crushed 40mm and down size graded granite metal coarse aggregates @0.89cum and fine aggregates @ 0.46cum, in foundation mechanically mixed, placed in foundation and compacted by vibration including curing for 14 days including cost of all materials, labour, HOM curing, form works, scaffolding and centering complete as per specifications. (P.No-222,I No-27.18)								
	For Drain	Cum							
	Muneshwara layout								
	8th cross, Left side		2	76.00	1.00	0.15	22.80		
	8th cross, Right side, LHS		1	263.00	1.00	0.15	39.45		
	8th cross, Right side, RHS		1	245.00	1.10	0.15	40.43		
	9th cross, Left side		2	100.00	1.00	0.15	30.00		
	9th cross, Right side		2	173.00	1.00	0.15	51.90		
	10th cross, Left side		2	45.00	1.00	0.15	13.50		
	Culvert		5	6.40	1.50	0.15	7.20		
							205.28	5421.90	**1112980.52**
	Basic Rate Rs.=	5115.00							
	Add 6% A.W Rs. =	306.90							
	Total Rate Rs. =	**5421.90**							

Sl No	Description of work	Unit	No	Length m	Breadth m	Depth m	Quantity	Rate in Rs	Amount in Rs
3	Providing and laying plain/reinforced cement concrete for side drains using M20 nominal mix concrete with OPC at 300 kgs. With 20mm and sown size granite metal course aggregates at 0.69 cum and fine aggregates at 0.43 cum machine mixed, well compcted for walls and bottom including centring shuttering cost of material HOM of machinary curing etc., complete execluding cost of steel as per MORTH specification no. 1500, 1700, 2200 including cost of material labour HOM complete as per specification. (P.No.271, I.No.37.59.2 of PW, P&IWTD S.R 2018-19)								
	For RCC Drain	Cum							
	Bottom slab								
	Muneshwara layout								
	8th cross, Left side		2	76.00	0.80	0.15	18.24		
	8th cross, Right side, LHS		1	263.00	0.80	0.15	31.56		
	8th cross, Right side, RHS		1	245.00	0.90	0.15	33.08		
	9th cross, Left side		2	100.00	0.80	0.15	24.00		
	9th cross, Right side		2	173.00	0.80	0.15	41.52		
	10th cross, Left side		2	45.00	0.80	0.15	10.80		
	side walls								
	Muneshwara layout								
	8th cross, Left side		4	76.00	0.15	0.60	27.36		
	8th cross, Right side, LHS		2	263.00	0.15	0.60	47.34		
	8th cross, Right side, RHS		2	245.00	0.15	0.75	55.13		
	9th cross, Left side		4	100.00	0.15	0.60	36.00		
	9th cross, Right side		4	173.00	0.15	0.60	62.28		
	10th cross, Left side		4	45.00	0.15	0.60	16.20		
	Culvert raft		5	6.40	1.20	0.20	7.68		
	Culvert wall		10	6.40	0.23	0.60	8.83		
							420.01		
					Net Qty.		**420.01**	7070.20	**2969568.84**
	Basic Rate Rs.=	6670.00							
	Add 6% A.W Rs. =	400.20							
	Total Rate Rs. =	**7070.20**							
4	KSRRB - M2300-14: Providing TMT steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, palcing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining memebrs wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications.MORTH Specification No. 1600 & 2200 for TMT bars Fe 500. (P.No.239, I.No.29.29.2 of PW, P&IWTD S.R 2018-19)								
	Considering steel For Drain @ 60 kg / cum	Tonne		403.50	0.060	--	24.21		
	Considering steel For culvert @ 90 kg / cum	Tonne		16.51	0.090	--	1.49		
							25.70	73992.24	**1901310.52**
	Basic Rate Rs.=	69804.00							
	Add 6% A.W Rs. =	4188.24							
	Total Rate Rs. =	**73992.24**							

Sl No	Description of work	Unit	No	Length m	Breadth m	Depth m	Quantity	Rate in Rs	Amount in Rs
5	Providing and fixing RCC precast cover slab of 100mm thick for drain in cement concrete 1:1.5:3 using graded granite jelly 20mm and down size with steel reinforcement, including form work, lift charges, curing and concrete finished surfaces on both sides etc, complete and as per drawing and the directions of Engineer in-charge. (Data Rate)								
	For drain cover slab	Sqm							
	Muneshwara layout								
	8th cross, Left side		2	76.00	0.75	--	114.00		
	8th cross, Right side, LHS		1	263.00	0.75	--	197.25		
	8th cross, Right side, RHS		1	245.00	0.90	--	220.50		
	9th cross, Left side		2	100.00	0.75	--	150.00		
	9th cross, Right side		2	173.00	0.75	--	259.50		
	10th cross, Left side		2	45.00	0.75	--	67.50		
							1008.75	2337.00	**2357448.75**
	Data Rate Rs. =	2337.00							
6	Providing and fixing RCC precast cover slab of 250mm thick for drain in cement concrete 1:1.5:3 using graded granite jelly 20mm and down size with steel reinforcement, including form work, lift charges, curing and concrete finished surfaces on both sides etc, complete and as per drawing and the directions of Engineer in-charge. (Data Rate)								
		Sqm							
	Muneshwara layout								
	Culvert		5	6.40	1.20	--	38.40		
							38.40	5418.00	**208051.20**
	Data Rate Rs. =	5418.00							
								Sub Total 1 Rs.	**8840772.71**
	Add GST @ 12%								**1060892.73**
	PMC @ 1%								**98000.00**
								Sub Total 2 Rs.	**9999665.44**
	Miscellaneous & Rounding off								**334.56**
								Total Rs.	**10000000.00**

CERTIFICATE:

1. The work spot has been inspected by me and the work is found to be necessary.
2. The rates adopted based on the PWD SR,Bangalore circle for year 2018-2019, issue rates dated 20-05-2020 and Data Rates
3. The Provisions made in the estimate are quite necessary and adequate.
4. The area comes with in the BBMP limits.

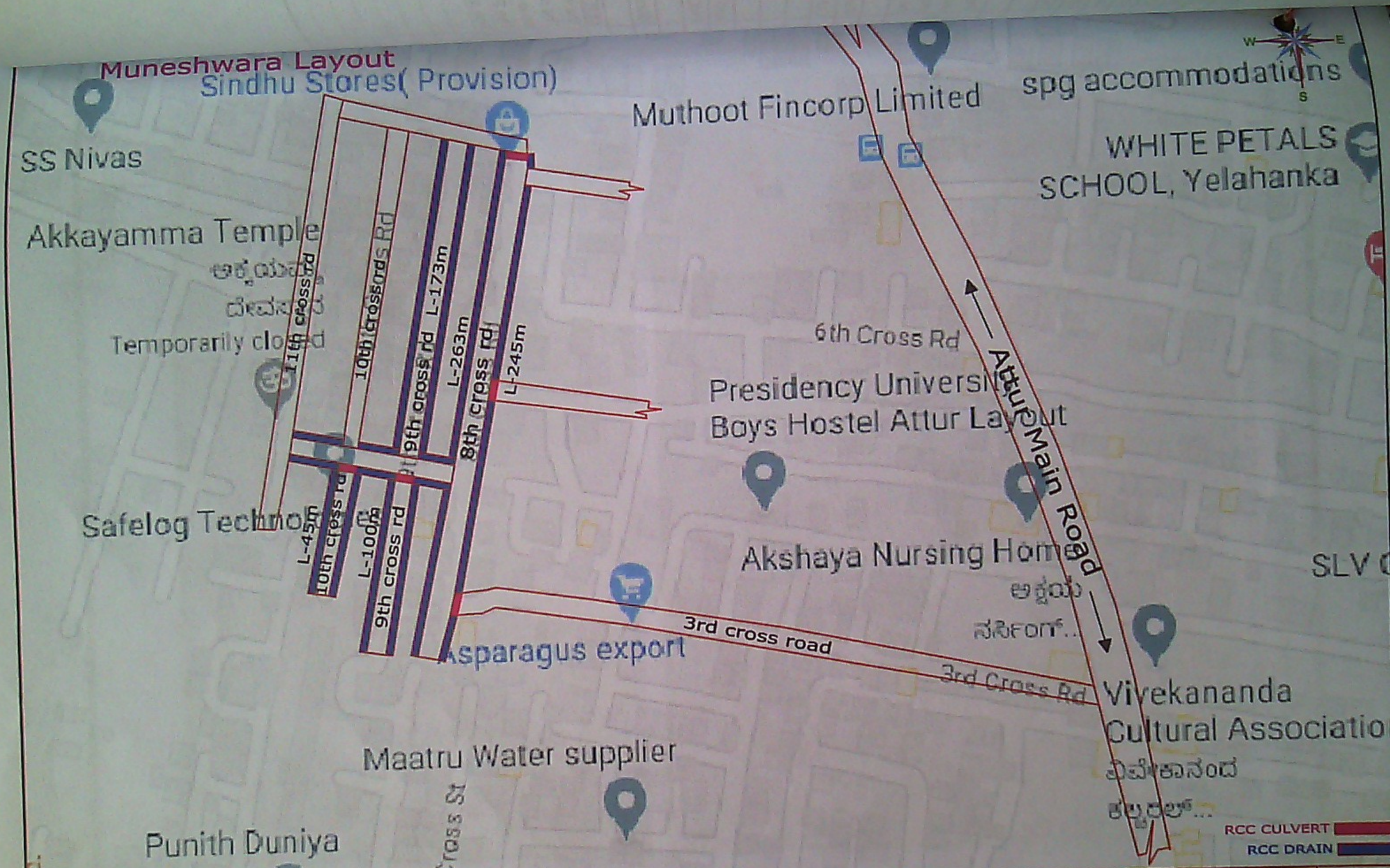
Assistant Engineer Ward 03 BBMP	Assistant Executive Engineer Yelahanka Satellite Sub Division BBMP	Executive Engineer Yelahanka Division BBMP

CONSULTANT:-
Silicon Consulting Engineers
#51317, 4th CROSS BEL
2nd STAGE BHARATH NAGAR
BANGALORE 560 091

Assistant Engineer | Assistant Executive Engineer | Executive Engineer

Improvements to roads and drain at Cross and Main roads in AMS Layout in ward no. 03, Attur

Dwg no: | Date | Rev. R0



CLIENT: BRUHAT BANGALORE MAHANAGARA PALIKE	CONSULTANT:- Silicon Consulting Engineers #S1317, 4th CROSS BEL 2nd STAGE BHARATH NAGAR BANGALORE 560 091. E-mail siliconcivilengineers@gmail.com	Assitants Engineer	Assitants Executive Engineer	Executive Engineer	Improvements to roads and drain at 8th, 9th, 10th and 11th cross roads in Muneshwara layout in ward no. 03, Attur — Dwg no: — Date — Rev: R0